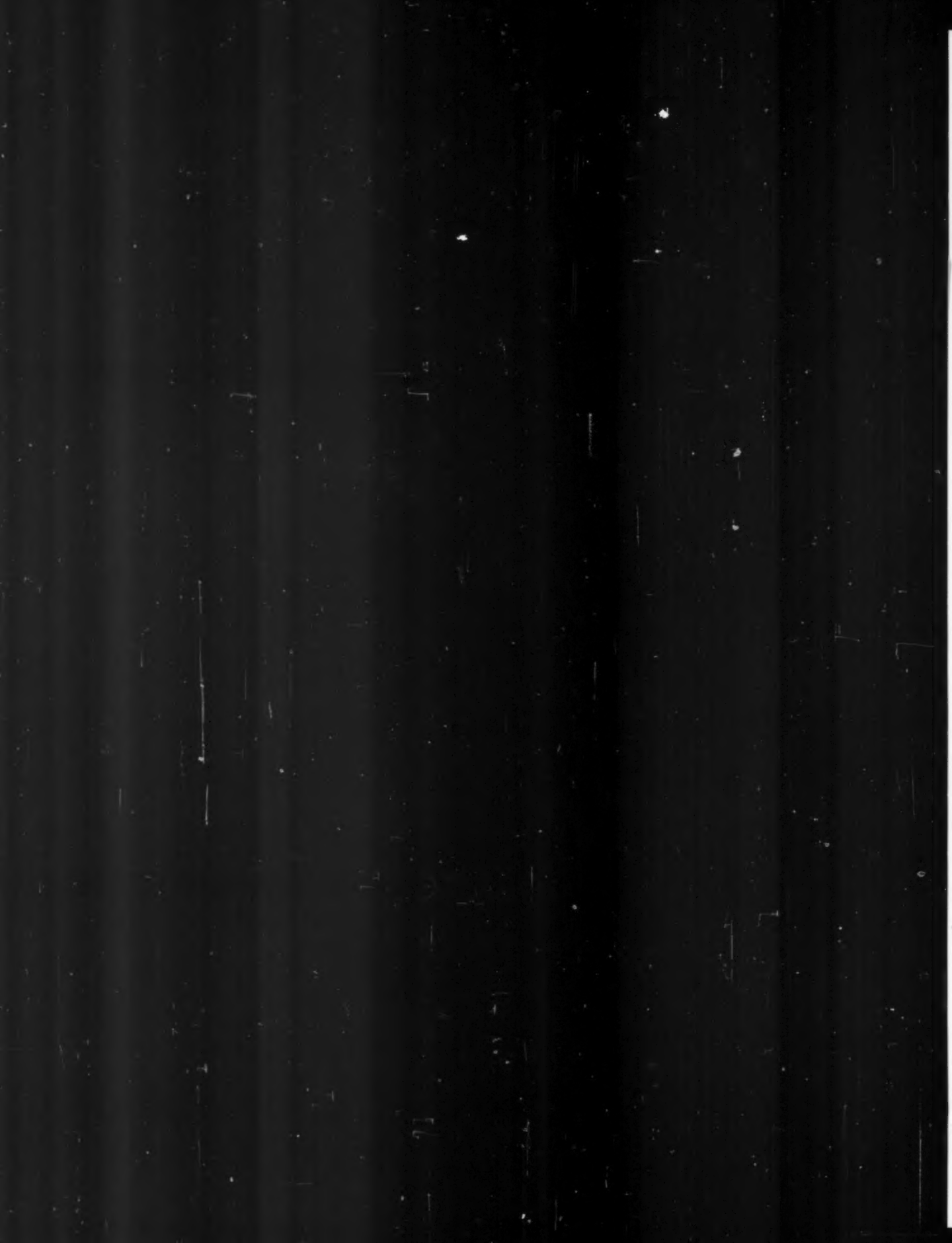


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Canadian Fasteners Institute
Powder Actuated Tool Mfrs. Institute Inc.

Casting, Die Casting

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American Foundrymen's Society
B C I R A
Canadian Die Casters Association
Die Casting Research Foundation
Foundry Equipment Manufacturers Association
Iron Castings Society
National Foundry Association
Non-Ferrous Founders Society
Society of Die Casting Engineers
Steel Castings Institute of Canada
Steel Founders Society of America

Government Depts. and Agencies

Alberta Opportunity Co.
Alberta Department of Economic Development
Canadian Commercial Corporation
Dept. of Energy, Mines and Resources
Department of Industry, Trade and Commerce
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Research and Productivity Council
Saskatchewan Dept. of Industry and Commerce
Saskatchewan Economic Development Corp. (SED-CO)

Machine Tools, Machinery

American Supply & Machinery Manufacturers Ass'n.
Bearing Specialists Association
Belgian Machine Tool Association
Canadian Machine Builders' Association
Canadian Machine Tool Distributors Association
Canadian Tooling Manufacturers Association
Cemented Carbide Producers Association
French Machine Tool Builders' Association
German Machine Tool Builders Association
Grinding Wheel Institute

Italian Machine Tool Builders' Association
Japan Machine Tool Builders' Association
Japan Trade Centre
Machine Tool Trades Association
Machine Tools of Spain Association
Machinery and Allied Products Institute
Machinery Dealers National Association
Machinery and Equipment Manufacturers Association of Canada
Metal Cutting Tool Institute
National Machine Tool Builders Association
National Screw Machine Products Association
Numerical Control Society
Society of Carbide and Tool Engineers

Management

AAC Industrial Consultants
American Institute of Plant Engineers
Canadian Association for Production and Inventory Control
Canadian Institute of Management
Industrial Management Clubs of Canada
Industrial Management Society and Film Library
MIM Management Centre
National Association of Suggestion Systems
Ontario Society for Training and Development
Production Engineering Division (CSME)
Purchasing Management Association of Canada
Technical Service Council

Materials

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American Ceramic Society
American Iron & Steel Institute
American Society of Electroplated Plastics
American Society for Metals
Association of Iron and Steel Engineers
B C I R A
Canadian Copper & Brass Development Association
Canadian Forgings Association
Canadian Foundry Association
Canadian Institute of Metalworking
Canadian Steel Service Centre Institute
Copper and Brass Servicenter Association
Dept. of Energy, Mines & Resources
Ductile Iron Society
Institute of Scrap Iron & Steel, Inc.
Iron Castings Society
Lead Industries Association
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Tin Research Institute
Welded Steel Tube Institute

Wire Association International Inc.
Zinc Institute

Materials Handling

Conveyor Equipment Manufacturers Association
Industrial Truck Association
Industrial Truck Association of Canada
Material Handling Equipment Distributors Association
Materials Handling Institute

Metal Finishing

American Electroplaters' Society
American Hot Dip Galvanizers
Canadian Paint Manufacturers Association
Electrochemical Society
Metal Finishers Foundation
National Association of Metal Finishers

Metal Forming, Forging

American Metal Stamping Association
Canadian Forgings Association
Canadian Foundry Association
Custom Roll Forming Institute
Forging Industry Association

Professional Associations

American Institute of Chemical Engineers
American Institute of Plant Engineers
American Society for Engineering Education
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Canadian Council of Professional Engineers
Canadian Fluid Power Association
Canadian Institute of Management
Canadian Society for Mechanical Engineering
Canadian Society for Nondestructive Testing Inc.
Council of Engineering Institutes

Information sources

Engineering Institute of Canada
Fluid Power Society
Institute of Electrical and Electronic Engineers
Institute of Electrical Engineers
Institute of Industrial Engineers
Institute of Mechanical Engineers
Instrument Society of America
The Metallurgical Society of AIME
Methods-Time Measurement Association for Standards and Research
National Association of Corrosion Engineers
Numerical Control Society
Ontario Association of Certified Engineering Technicians and Technologists
Order of Engineers of Quebec
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Quality Control, Standards

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National Research Council of Canada Technical Information Service
Ontario Research Foundation
Production Engineering Research Association of Great Britain
Research and Productivity Council
Steel Castings Research and Trade Association
University Industrial Research Institutes
The Welding Institute
Welding Institute of Canada

Safety

American Society of Safety Engineers
Industrial Accident Prevention Association of Ontario
Industrial Safety Equipment Association Inc.
Metal Trades Accident Prevention Association

Tooling

Canadian Tooling Manufacturers Association
National Tool, Die and Precision Machinery Association
Tool and Die Institute

Trade Associations

The Adhesive and Sealant Council
Air-Conditioning & Refrigeration Institute
Aluminum Association Inc.
Aluminum Foil Container Mfrs. Association
American Ceramic Society Inc.
American Chain Association
American Die Castings Institute

American Electroplaters Society
American Foundrymen Society
American Gear Manufacturers Association
American Hot Dip Galvanizers Association
American Institute of Steel Construction
American Iron and Steel Institute
American Metal Stamping Association
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American Supply and Machinery Manufacturers Association
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Automotive Part Rebuilders Association
Canadian Automotive Electric Association
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Canadian Boiler Society
Canadian Business Equipment Mfrs. Association
Canadian Copper & Brass Development Association
Canadian Die Casters Association
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Canadian Farm and Industrial Equipment Institute
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Canadian Fluid Power Association
Canadian Forgings Association
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Canadian Machine Tool Distributors' Association
Canadian Manufacturers' Association
Canadian Nuclear Association
Canadian Outdoor Power Equipment Association
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Canadian Shippers Council
Canadian Steel Service Centre Institute
Canadian Tooling Manufacturers Association
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Compressed Gas Association
Conveyor Equipment Manufacturers Association
Corrugated Steel Pipe Institute
Cutting Tool Manufacturers Association
Diamond Wheel Manufacturers Institute
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Electronic Industries Association
Engine Manufacturers Association
Fluid Power Society
Food Processing Machinery and Supplies Association
Forging Industry Association
Foundry Equipment Manufacturers Association
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Industrial Heating Equipment Association
Industrial Instrument Manufacturers Association
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Machinery and Equipment Manufacturers Association of Canada
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Metal Cookware Manufacturers Association
Metal Cutting Tool Institute
Metal Finishers Foundation
Metal Treating Institute
Motor Vehicle Manufacturers Association
National Association of Architectural Metal Manufacturers
National Association of Chain Manufacturers
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National Foundry Association
National Machine Tool Builders Association
National Marine Manufacturers Association
National Screw Machine Products Association
Packaging Association of Canada
Powder Actuated Tool Mfrs. Institute Inc.

Powder Metallurgy Parts Association
The Refractories Institute
Roll Manufacturers Institute
Rubber Association of Canada
Scale Manufacturers Association
Shipbuilders Council of America
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Society of the Plastics Industry of Canada
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Truck Trailers Manufacturers Association
Welded Steel Tube Institute
The Wire Association Inc.
Wire Reinforcement Institute

Trade Unions

Canadian Labour Congress
Confederation Des Syndicats Nationaux
International Association of Machinists and Aerospace Workers
International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers
International Molders & Allied Workers Union, AFL-CIO-CLC
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Metal Polishers, Buffers, Platers, and Helpers International Union
Sheet Metal Workers' International Association
United Steelworkers of America

Welding

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Headquarters: 1600 Wilson Blvd., Suite 910, Arlington, Va. 22209. J. Rapp, Exec. Vice-President

Air-Conditioning & Refrigeration Institute

Headquarters: 1815 N. Fort Myer Dr., Arlington, Va. 22209.

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Industry trade association.

Headquarters: 818 Connecticut Ave. N.W., Washington, D.C. 20006.

Aluminum Foil Container Mfrs. Ass'n

Headquarters: P.O. Box J, Walworth, Wis. 53184. Paul Uetzmann, Exec. Secretary.

American Ceramic Society Inc.

Headquarters: 65 Ceramic Drive, Columbus, Ohio 43214. Dr. Arthur L. Friedberg, Exec. Director.

American Chain Association

Headquarters: 1000 Vermont Ave., N.W., Washington, D.C. 20005. R. J. Lloyd, Exec. Secretary.

American Die Casting Institute

Trade association of the custom die casting industry and its suppliers.

Headquarters: 2340 Des Plaines Ave., Des Plaines, Ill. 60018.

American Electroplaters' Society

Aims at improving knowledge in the arts and sciences of electroplating, metal finishing and allied arts and the advancement of electroplating and surface finishing.

Headquarters: 1201 Louisiana Ave., Winter Park, Fla. 32789. J. Howard Schumacher, Jr., Executive Director.

Montreal: B. L. Badger, c/o MacDermid Chemicals, Inc., 2737 Louis A. Amos St., Lachine, Que. H8T 1C3.

Toronto: E. P. Blandy, 319 Maple Grove Dr., Oakville, Ont. L6J 4V6.

Western Ontario: T. Lamberton, 1961 E C Row, Windsor, Ont. N8W 1Y6.

Ottawa: P. Burwell, Stn. A, P.O. Box 399, Ottawa, Ont. K1N 8V4.

American Foundrymen's Society

Aims to advance the arts and sciences relating to the manufacture and utilization of metal castings through research and education. Society represents, on a technical basis, all metal classifications.

Headquarters: Golf and Wolf Rds., Des Plaines, Ill. 60016. Exec. v-pres. A. B. Sinnott.

British Columbia Chapter: Secy-Treas.—Ian McConnell, Inproheat Ltd., 680 Raymur Ave., Vancouver, B.C. V6A 2R1.

Eastern Canada Chapter: Secretary—Gilbert Menseau, 4380 Coolbrook Ave., Montreal, Que. H4A 3G2.

Manitoba Chapter: Secy.-Treas.—S. Buchko, 460 Sinclair St., Winnipeg, Man. R2X 1Y1.

Ontario Chapter: Secretary—J. W. Cherrett, 1524 Hobbs Crescent, Mississauga, Ont. L5J 3R9.

American Gear Manufacturers Ass'n.

Headquarters: Suite 1000, 1901 North Fort Myer, Dr., Arlington, Va. 22209.

American Hot Dip Galvanizers Assn.

Assistance in all facets of preventing corrosion with hot dip galvanizing after fabrication; seminars; publications; specifications writing assistance and review.

Headquarters: 1000 Vermont Ave. N.W., Washington, D.C. 20005. Raymond J. Lloyd, exec. vice-president.

Canada: Glen S. Nishimura, Canadian Marketing Director, 15 Glen Davis Crescent, Toronto, Ont. M4E 1X6.

American Institute of Chemical Engineers

Headquarters: 345 E 47th St., New York, N.Y. 10017. J. Charles Forman, executive director.

American Institute of Plant Engineers

Aims to assist members in gaining and maintaining leadership in their profession and, through collective effort, to advance the professional standing of this specialized branch of engineering.

Headquarters: 3975 Erie Ave., Cincinnati, Ohio. Milton A. Tatter, executive director.

Hamilton Chapter: William J. Keay, 17 Roseway Dr., Markham, Ont.

American Institute of Steel Construction, Inc.

Headquarters: 400 North Michigan Ave., 8th Floor, Chicago, Ill. 60611. Richard G. Altmann, President.

American Iron & Steel Institute

Headquarters: 1000 16th St. N.W., Washington, D.C. 20036.

American Metal Stamping Association

This trade association for the metal stamping industry acts as clearing house for technical, statistical safety, management and other information. The Association holds local and national meetings.

Headquarters: 27027 Chardon Rd., Richmond Heights, Ohio 44143. Jon E. Jensen, exec. vice-president.

American Society of Electroplated Plastics Inc.

Headquarters: 1000 Vermont Ave. N.W., Washington, D.C. 20005. Robert J. Daugherty, Exec. Director.

American Society for Engineering Education

Headquarters: Eleven Dupont Circle, Ste. 200, Washington, D.C. 20036.

American Society of Lubrication Engineers

Aims to promote the knowledge and application of the science of lubrication and related arts and sciences.

Headquarters: 838 Busse Highway, Park Ridge, Ill. 60068.

Hamilton: F. Robert Hollyman, Imperial Oil Ltd., P.O. Box 427, Hamilton, Ont. L8N 3H8.

Montreal: Robert Arriot, Shell Canada, 1 Place Ville Marie, Montreal, Que. H3K 4B1.

Toronto: Mart Aviste, Kodak Canada Ltd., 3500 Eglinton Ave. W., Toronto, Ont. M6M 1V3.

American Society of Mechanical Engineers

Aims to promote the art and sciences of mechanical engineering through research, education and discussion among themselves.

Headquarters: Exec. director Burke E. Nelson, United Engineering Center, 345 E. 47 St., New York, N.Y. 10017.

Ontario Section: Ron J. Sturk, 39 Lorne Ave., Brampton, Ont. L6X 1L2.

Niagara Section: J. A. Leech-Porter, 1808 Main Street West, Hamilton, Ontario L8S 1H4.

British Columbia Section: Brian W. Cole, Ministry of Labour, 501 W. 12 Ave., Vancouver, B.C. V5Z 1M6.

American Society for Metals

Aims at improved technology in metalworking's materials and processes. Implements objectives through a continuing program of disseminating technical information on the engineering aspects of materials.

Headquarters: Metals Park, Ohio 44073. A. R. Putnam, Managing Director.

British Columbia Chapter: J. A. Green, Uddeholm Steels Limited, 2071 Viceroy Place, Richmond, B.C. V6V 2Y9.

Calgary Chapter: Mrs. D. N. Kwok, Alberta Gas Trunk Line Co., P.O. Box 2535, Calgary, Alta. T2P 2N6.

Central Ontario Chapter: G. C. Reid, Reuter-Stokes Canada Ltd., P.O. Box 970, Cambridge, Ont. N1R 5X9.

Edmonton Chapter: D. A. Ashley, Stelco Inc., 29 Glenridge Rd., Sherwood Park, Alta. T8A 3A7.

Kingston Chapter: J. D. Thomson, Deloro Stellite, P.O. Box 5300, Belleville, Ont. K8N 5C4.

Manitoba Chapter: C. Ravindran, Manitoba Rolling Mills, P.O. Box 2500, Selkirk, Man. R1A 2B4.

Montreal Chapter: S. F. Vincelli, Norton Steel Co. Ltd., 190 Murray St., Montreal, Que. H3C 2C8.

Northern Ontario Chapter: Fred Haromy, Algoma Steel Corp., Division 2, Wallace Terrace, Ont.

Ottawa Chapter: G. W. Dallin, Stelco Inc., Met. Lab., Wilcox St., Hamilton, Ont. L8N 3T1.

Ottawa Valley Chapter: J. D. Dancy, Dept. of Industry, Trade & Commerce, 235 Queen St., Ottawa, Ont. K1A 0H5.

Quebec Chapter: J. C. Fontaine, Laval University, Mines & Met. Dept., Quebec City, Que. G1K 7P4.

Vancouver Island Chapter: V. R. Willerton, 1960 Neil St., Victoria, B.C.

Western Ontario Chapter: H. J. Vanderbrink, Union Gas Ltd., 650 Division Road, Windsor, Ont. N9A 6N7.

American Society for Nondestructive Testing

Scientific and educational aims directed toward the advancement of theory and practical nondestructive test methods.

Headquarters: 4153 Arlington Plaza - Columbus, OH 43228. Donald J. Walter, managing director.

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American Society for Quality Control

Advances and diffuses knowledge of the science of quality control and of its application to industrial, administrative and other processes, especially to the quality of industrial products.

Headquarters: Room 6197, Plankinton Bldg., 161 West Wisconsin Ave., Milwaukee, Wisc. 53203.
Exec. Dir. R. W. Shearman.

American Society of Safety Engineers

Promotes the advancement of the safety profession and the professional well-being and development of its members.

Headquarters: 850 Busse Highway, Park Ridge, Ill. 60068. Judy Neel, CAE Executive director.

American Society for Testing and Materials

ASTM, founded in 1898 is a management system for the development of voluntary consensus standards for materials, products, systems, and services, some of which cover the metalworking industry. The organization also hosts symposia throughout the year.

Headquarters: 1916 Race St., Philadelphia, Pa. 19103.

American Supply & Machinery Manufacturers Association

Headquarters: 1230 Keith Building, Cleveland, Ohio 44115. Charles M. Stockinger, Business Manager.

American Welding Society, Inc.

Headquarters: 2501 N.W. 7th St., Miami, Fla. 33125. J. Edward Dato, exec.-director.

Association of Canadian Industrial Designers

Aims to promote a high standard of design in industrial products as a service to the public, the manufacturing industries, and the national culture and economy.

Headquarters: c/o School of Industrial Design, Carleton University, Ottawa, Ont. K1S 5B6. Jacques Giar, president.

Manitoba Chapter: Box 1722, Winnipeg, Man. R3C 0R0.

Ontario Chapter: #800—55 University Ave., Toronto, Ont. M5J 2H7.

Quebec Chapter: 432 Place Jacques Cartier, Montreal, Que. H2Y 3B3.

Association of Consulting Engineers of Canada

Aims and objectives are to assist in promoting satisfactory business relations between the members of the Association and their clients: To promote cordial relations among the various consulting engineering firms in Canada and foster the interchange of professional, management and business experience and information among them and when necessary to safeguard the interest of the consulting engineer; and to further the maintenance of high professional standards in the consulting engineering profession.

National Office: 130 Albert St., Suite 616, Ottawa, Ont. K1P 5G4. H. R. Pinault, Managing Director.

Member Organizations—

Alberta: H. V. Page, 1403 Baker Centre, 10025-106 St., Edmonton, Alta. T5J 1G4.

British Columbia: J. H. Bennett, 2675 Oak St., Vancouver, B.C. V6H 2K3.

Manitoba: R. W. McKnight, 175 Hargrave St., Ste. 640, Winnipeg, Man. R3C 3R8.

Nova Scotia: Murray Nicoll, c/o Beasy Nicoll Engineering Ltd., 6080 Young St., Ste. 512, Halifax, N.S. B3K 5L2.

Ontario: Ross F. Reid, 1027 Yonge St., Toronto, Ont. M4W 3E5.

Quebec: Marcel Desrochers, Association des ingénieurs-conseils du Québec, 1010 ouest, rue Ste. Catherine, Pièce 303, Montréal, P.Q. H3B 1G1.

Saskatchewan: R. Bing-Wo, 2220-12th Ave., Ste. 220, Regina, Sask. S4P 0M8.

Association of Iron & Steel Engineers

To advance the technical and engineering phases of the production and processing of iron and steel.

Headquarters: Suite 2350, Three Gateway Center, Pittsburgh, Pa. 15222. Herschel B. Poole, managing director.

Association of Professional Engineers, Geologists and Geophysicists of Alberta

The licensing body for the practice of engineering geology and geophysics in the province.

Headquarters: 1010 One Thornton Court, Edmonton, Alta. T5J 2E7. A. C. Milroy, executive director.

Association of Professional Engineers of British Columbia

Administrators of the Engineering Profession Act 1979 for the Province of British Columbia.

Headquarters: 2110 W. 12th Ave., Vancouver B.C. V6K 2N6. D. C. Lambert, Managing Director and Registrar.

Association of Professional Engineers of Manitoba

The licensing body for the practice of engineering in the province.

Headquarters: 640-175 Hargrave St., Winnipeg, Man. R3C 3R8.

Association of Professional Engineers of New Brunswick

The registering and licensing body for the Practice of engineering in the province.

Headquarters: 123 York St., Fredericton, N.B. E3B 3N6. Sheila W. McLeod, Exec.-Director.

Association of Professional Engineers of Newfoundland

The licensing body for the practice of engineering in the province.

Headquarters: Box 8414, Stn. A, (Jack Green Bldg., O'Leary Ave.) St. John's, Nfld. A1B 3N7. J. F. Power, General Manager.

Association of Professional Engineers of Province of Nova Scotia

The licensing body for the practice of engineering in the province.

Headquarters: 1888 Brunswick St., Suite 902, P.O. Box 129, Halifax, N.S. B3J 2M4. F. J. MacDonald, P.Eng., Executive Officer.

Association of Professional Engineers of Ontario

The licensing body for the profession of engineering in the province.

Headquarters: 1027 Yonge St., Toronto, Ont. M4W 3E5. A. C. Cagney, Exec.-Director.

Association of Professional Engineers of Prince Edward Island

The licensing body for the practice of engineering in the province.

Headquarters: Box 278, Charlottetown, P.E.I. D. C. Champion, Secretary.

Association of Professional Engineers of Saskatchewan

The licensing body for the practice of engineering in the province.

Headquarters: Suite 220, 2220-12th Ave., Regina, Sask. S4P 0M8. R. Bing-Wo, Secretary.

Association of Professional Engineers of the Yukon Territory

The licensing body for the practice of engineering in the Territory.

Headquarters: P.O. Box 4125, Whitehorse, Yukon Y1A 3S9. K. J. Baker, Registrar.

Association for Systems Management

Aims to promote the improvement of management information systems through study, education, research and exchange of ideas. To promote a broader understanding of the value of systems as a component of effective management.

Headquarters: 24587 Bagley Rd., Cleveland, Ohio 44138. Exec. director R. L. Irwin.

Atomic Industrial Forum, Inc.

Headquarters: 7107 Wisconsin Ave., Washington, D.C. 20014. Edwin Wiggin, Exec. Vice-President.

Automotive Parts Manufacturers' Association of Canada

Aims to promote the manufacture in Canada of parts, materials, tools, equipment and supplies used in the automotive industry insofar as it is economically sound and to engage in activities for the welfare of members.

Headquarters: Suite 402, 55 York St., Toronto, Ont. M5J 1R7. P. J. Lavelle, president.

Automotive Parts Rebuilders Association

Headquarters: 6849 Old Dominion Drive, McLean, Va. 22101. L. P. Mutter, Exec. Vice-President.

BCIRA

Experimental R & D, consulting, advisory and information services on all aspects of metal castings production and their performance in service.

Headquarters: Alvechurch, Birmingham B48 7QB England.

BC Research

Applied research and development at cost to business and industry on a confidential basis. New products and processes developed; current ones improved. Special skills are provided in the fields of electronics, electro-optics, strain measurement, hydraulics, machine design, computer techniques, two-phase gas/liquid pumps, ocean engineering, wave-compensating winches and handling systems for submersibles. Wood/coal gasification systems and equipment, stack gas samplers, systems and engineering for biological leaching of ores and metal concentrates. Management and productivity centre of

Information sources

fers training programs, guidance and assistance for manufacturing industries.

Headquarters: 3650 Westbrook Mall, Vancouver V6S 2L2. Dr. V. Alan Mode, Executive Director.

BNF Metals Technology Centre

Research, technical information, advisory and consultancy services for all manufacturers and users of non-ferrous metals.

Headquarters: Grove Laboratories, Denchworth Rd., Wantage, Oxfordshire OX12 9BJ, England, Bruce D. Doig, Secretary.

Bearing Specialists Association

Headquarters: 221 N. LaSalle St., Chicago, Ill. 60601.

Belgian Machine Tool Association

Syndicat des Constructeurs Belges de Machines-outils pour le Travail des Metaux. "SYCOMOM".

Headquarters: 21 Rue Des Drapiers, 1050, Brussels, Belgium.

CSNDT Foundation,

Provinces information, training and certification of NDT personnel.

Headquarters: c/o Mohawk College of Applied Arts & Technology, 135 Fennell Ave. W., Hamilton, Ont. L8N 3T2.

Canadian Association for Production and Inventory Control

Operates as region eight of the American Production and Inventory Control Society with the primary objective of providing opportunities and facilities for members to improve their education in the philosophies and techniques of production and inventory control.

Headquarters: American Production and Inventory Control Society, Watergate Building, #504, 2600 Virginia Ave. NW., Washington, D.C. 20037. Canadian Information Centre: CAPIC, 197 Pellatt Ave., Toronto, Ont. M9N 2P5.

Toronto: J. Paterson, Cheselbrough-Ponds Canada Ltd., 150 Bullock Dr., Markham, Ont. L3P 1W3.

Montreal: Jean Noel, Infoteknik Inc., B.P. 85, Ste. Anne de Bellevue, Que. H9X 3L4.

Hamilton: Glenn Coates, E.D. Smith & Sons, Winona, Ont.

Ontario Grand Valley: Gerry Schnurr, J. Stahl Inc. Ltd., 171 Webster Rd., Kitchener, Ont. N2C 2E7.

London: Collin Marriott, 3M Canada Ltd., Box 5757, London, Ont.

Vancouver: Ken Holness, Gearmatic Division Paccar of Canada Ltd., P.O. Box 1000, Surrey, B.C. V3S 4P4.

Canadian Automotive Electric Association

An association of authorized service distributors organized to maintain a high standard of sales and parts service on specialized equipment for automotive vehicles and the internal combustion engine in all its uses. Provides service education and technical assistance.

Headquarters: 3335 Yonge St., Suite 403, Toronto, Ont. M4N 2L9. A. J. Bishop, executive secretary.

Canadian Battery Manufacturers' Association

Trade association of Canadian manufacturers of in-

dustrial and automotive storage batteries and dry cell batteries.

Headquarters: Suite 1400, One Yonge St., Toronto, Ont. M5E 1J9.

Canadian Boiler Society

Trade association of Canadian manufacturers of commercial and industrial boilers, and/or nuclear components, and their suppliers.

Headquarters: One Yonge St., Suite 1400, Toronto, Ont. M5E 1J9.

Canadian Business Equipment Manufacturers Association

Aims to project the industry both externally and internally, through activities with governments at all levels, and utilizing the talents and experiences of members in solving common problems.

Headquarters: 1 Yorkdale Road, Suite 212, Yorkdale Place, Toronto, Ont. M6A 3A1. D. J. Flood, General Manager.

Canadian Commercial Corporation

A Crown Corporation wholly owned by the Government of Canada, CCC assists in the development of trade between Canada and other nations. Coordinating its activity with Government and other export efforts, and working through the Export Supply Centre and Product Centres of the Department of Supply and Services, CCC business involves tying together the requirements of foreign governments and international agencies with the supply capabilities of Canadian producers of goods and services. Annual export sales now total over \$400 million. CCC alerts Canadian suppliers to bid opportunities and develops government-to-government contracts with a commitment to deliver a product, service or project package to a foreign customer, matched by a back-to-back obligation from Canadian sources.

Headquarters: 112 Kent St., 17th floor, Place de Ville, Tower B, Ottawa, Ont. K1A 1E9. R. L. Gillen, President.

Canadian Copper and Brass Development Association

A non-trading organization, sponsored by the Canadian copper and brass industry to promote the uses of copper, its alloys and compounds. Services include technical assistance and distribution of pertinent literature. These services are available to industry, educational institutions, and the general public, without charge.

Headquarters: 55 York St., Room 1612, Toronto, Ont. M5J 1R7. R. Wardell, Exec. Director.

Canadian Council of Professional Engineers

Co-ordinating body of eleven provincial and territorial Associations of Professional Engineers in Canada. Representation of the engineering profession at the national level on all non-technical matters.

Headquarters: Claude Lajeunesse, P.Eng., General Manager, Suite 401, 116 Albert St., Ottawa, Ont. K1P 5G3.

Alberta: Exec. Director, A. C. Milroy, 1010 One Thornton Crt., Edmonton, Alta. T5J 2E7.

British Columbia: Managing Director, D. C. Lambert, 2210 W. 12th Ave., Vancouver, B.C. V6K 2N6.

Manitoba: Managing Director, Mrs. Loreen Dunklee, 640-175 Hargrave St., Winnipeg, Man. R3C 3R8.

New Brunswick: Exec. Director, Sheila McLeod, 123 York St., Fredericton, N.B. E3B 3N6.

Newfoundland: General Manager, J. F. Power, Box 8414, Stn. A, St. John's, Nfld. A1B 3N7.

Northwest Territories: Director, Robert W. Spence, Box 1962, Yellowknife, N.W.T. X1A 2P5.

Nova Scotia: Exec. Secretary, F. J. MacDonald, Box 129, 1888 Brunswick St., Suite 902, Halifax, N.S. B3J 2M4.

Ontario: Exec. Director, A. C. Cagney, 1027 Yonge St., Toronto, Ont. M4W 3E5.

Prince Edward Island: Secretary, D. C. Champion, Box 278, Charlottetown, P.E.I. C1A 4B1.

Quebec: Directeur Gen., J. Soucy, 1100-2075 rue University, Montreal, P.Q. H3A 1K8.

Saskatchewan: Registrar, R. Bing-Wo, 2220 Twelfth Ave., Regina, Sask. S4P 0M8.

Yukon: Registrar, J. Y. C. Quong, Box 4125, Whitehorse, Yukon Y1A 3S9.

Canadian Die Casters Association

Industry trade association.

Headquarters: One Yonge St., Suite 1400, Toronto, Ont. M5E 1J9.

Canadian Export Association

Aims to foster and develop Canadian export trade and to protect and advance the interests of all Canadian exporters and others interested in export commerce.

Headquarters: Suite 250, 99 Bank St., Ottawa, Ont. K1P 6B9. T. M. Burns, President.

Canadian Farm and Industrial Equipment Institute

A trade association (founded 1966) representing manufacturers of farm and light industrial equipment marketed in Canada. Various committees liaise with government and farm groups.

Headquarters: 720 Guelph Line, #307, Burlington, Ont. L7R 4E2. B. M. Hamre, General Manager.

Canadian Fasteners Institute

Aims to foster as an industry, Canadian manufacturers of nuts, bolts, screws and rivets.

Headquarters: One Yonge St., Toronto, Ont. M5E 1J9.

Canadian Film Institute

Makes available to Canadian industry, at nominal charge, a wide variety of films covering every aspect of metalworking manufacture and other subjects.

Headquarters: 75 Albert St., Suite 1105, Ottawa, Ont. K1P 5E7. Frederik Manter, executive director.

Canadian Fluid Power Association

The members are manufacturers, assemblers, distributors and designers of fluid power systems. Such systems transmit, apply and control the hydraulic and pneumatic power used in industrial machinery, materials handling equipment, and in the automotive, agricultural and other fields.

Headquarters: One Yonge St., Suite 1400, Toronto, Ont. M5E 1J9. Sue Jones, Manager.

Canadian Forgings Association

A trade association of firms engaged in the production of forgings aimed at industry promotion and the exchange of technical information.

Headquarters: One Yonge St., Toronto, Ont. M5E 1J9.

Canadian Foundry Association

To deal and assist with common management problems; to foster and promote as an industry those

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manufacturers engaged in the production of all types of castings in Canada; to assist governments and public bodies in the preparation of regulations and legislation applicable to our industry; and unite in making representation to government and other public bodies across Canada on subjects of common concern.

Headquarters: Ste. 307, 151 Slater St., Ottawa, Ont. K1P 5H3.

Canadian Institute of Management

A non-political, non-profit professional society, chartered as an educational institution, whose purpose is

the improvement of management knowledge and techniques in Canada.

Headquarters: Canadian Institute of Management, National Council, Suite 110, 2175 Sheppard Ave. E., Willowdale, Ont. M2J 1W8.

Belleville: Box 13, Belleville, Ont. K8N 4Z9.

Brantford: Box 754, Brantford, Ont. N3T 5R7.

Calgary: Box 8564, Stn. F, Calgary, Alta. T2J 2V6.

Cape Breton: Box 152, Sydney, N.S. B1P 6H1.

Eastern Townships: Box 411, Sherbrooke, Que. J1H 5J7.

Edmonton: Box 185, Edmonton, Alta. T5J 2J1.

Grand Valley: Box 24, Kitchener, Ont. N2G 3W9.

Halifax-Dartmouth: Box 162, Halifax, N.S. B3J 2M4.

Hamilton: P.O. Box 3306, Stn. "C", Hamilton, Ont. L8H 7L4.

Lake Simcoe: Box 263, Orillia, Ont. L3V 6J6.

London: Box 611, Terminal B, London, Ont. N6A 4V4.

Montreal: Box 1238, Stn. B, Montreal, Que. H3B 3K9.

Niagara: Box 321, St. Catharines, Ont. L2R 6T7.

Ottawa: Box 11156, Stn. "H", Ottawa, Ont. K2H 7T9.

Owen Sound: c/o Box 700, Owen Sound, Ont. N4K 5R4.

Regina: Box 521, Regina, Sask.

Sarnia: Box 124, Sarnia, Ont. N7T 7H8.

Saskatoon: Box 1152, Saskatoon, Sask. S7K 3N2.

Toronto: Suite 110, 2175 Sheppard Ave. E., Willowdale, Ont. M2J 1W8.

Vancouver: 3179 Beacon Dr., Coquitlam, B.C. V3C 3W7.

Ville Marie: Box 161, Stn. R, Montreal, Que. H2S 3K6.

Winnipeg: 956 Southwood, Winnipeg, Man.

Canadian Institute of Metalworking

Provides a Service to Industry by solving metalworking problems on a contract basis. CIM places emphasis on the use of N/C technology to upgrade the manufacturing process. Justification studies for new machinery, pre-production or prototype machining, software development, and computer aided design are areas of expertise within CIM. The Institute has a wide range of N/C machine tools and computer aided design equipment. Metalworking research conducted by faculty members of the Mechanical Engineering Department is co-ordinated with CIM activities. Areas of research include metalforming, metalcutting, machinability of materials, grinding technology and machine tool analysis.

Headquarters: Canadian Institute of Metalworking, McMaster University, 1280 Main St. W., Hamilton, Ont. L8S 4K1. Manager: J. E. Crozier.

Canadian Institute of Steel Construction

The national trade association for structural steel, open-web steel joist, and plate fabricators. The Institute maintains an advisory service on steel construction through six offices across Canada staffed by regional engineers and provides a reference library, a film library and technical information.

Headquarters: 201 Consumers Rd., Suite 300, Willowdale, Ont. M2J 4G8. H. A. Krentz, president.

Ontario Region: same as Head Office.

Quebec Region: 1400 Sauve St. W., Suite 224, Montreal, Que. H4N 1C5.

Central Region: Ste. 605, 213 Notre Dame Ave., Winnipeg, Man. R3B 1N3.

Atlantic Region: 536 Roy Bldg., Barrington St., Halifax, N.S. B3J 2A1.

Alberta Region: 5923 Buckthorn Road N.W., Calgary, Alta. T2K 2Y8.

B.C. Region: 1033 Davie St., Ste. 208, Vancouver, B.C. V6E 1M7.

Canadian Labour Congress

Headquarters: 2841 Riverside Dr., Ottawa, Ont. K1V 8X7. Donald Montgomery, Secretary-Treasurer.

Canadian Machine Builders' Association

Aims: to promote the interests of the Canadian machine builders industry and act for the industry in dealings with government bodies; to develop standardization and research and to study industry markets; to protect the industry from unjust taxation.

Headquarters: 695 Bishop St., P.O. Box 3430, Cambridge, Ont. N3H 4V2. J. J. Havik, President; H. B. Iron, Secretary-Treasurer.



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Canadian Machine Tool Distributors Association

Aims to provide a means for discussion of problems affecting the trade; to stimulate the growth of the machine tool trade and to secure wider markets for its products; to advertise the trade and the specific advantages obtainable through the use of machine tools; to help the trade to render better service to buyers of machine tools.

Headquarters: 2175 Sheppard Ave. East, Suite 110, Willowdale, Ont. M2J 1W8.

Canadian Manufacturers' Association

Aims to promote Canadian Industries and to further the interests of Canadian manufacturers and exporters.

Headquarters: One Yonge St., Ste. 1400, Toronto, Ont. M5E 1J9. President, Roy A. Phillips.

New Brunswick—Prince Edward Island: Suite 312, 236 St. George St., Moncton, N.B. E1C 1W1.

Nova Scotia—Newfoundland: Suite 700, 1888 Brunswick St., Halifax, N.S. B3J 3J8.

Quebec Div.: 1080 Beaver Hall Hill, Suite 904, Montreal, P.Q. H2Z 1S8.

Manitoba/Saskatchewan Div.: 408 Power Bldg., 428 Portage Ave., Winnipeg, Man. R3C 0E2.

Alberta Div.: No. 227-One Thornton Court, Jasper Avenue at 99th St., Edmonton, Alta. T5J 2E7.

British Columbia: 608 Marine Bldg., 355 Burrard St., Vancouver, B.C. V6C 2G8.

Ottawa Office: 151 Sparks St., Suite 812, Ottawa, Ont. K1P 5E3.

Canadian Nuclear Association

To foster development of a strong Canadian nuclear industry capable of serving domestic and foreign markets for nuclear power stations and products related to peaceful uses of nuclear energy and isotopes. The CNA is also a major source of information for the public about the role of nuclear power.

Headquarters: 111 Elizabeth St., Toronto, Ont. M5G 1P7. James A. Weller, general manager.

Canadian Outdoor Power Equipment Association

Association comprises Canadian manufacturers of power lawn mowers, snowthrowers, and rototillers. Primary interests have been in the up-grading of the safety standards for the production of the above equipment, as well as promoting their safe use.

Headquarters: One Yonge St., Ste. 1400, Toronto, Ont. M5E 1J9.

Canadian Paint and Coatings Association

A trade association accounting for about 65% of Canadian sales of industrial coatings. Subscriber membership in the Association available to industrial coating applicators.

Headquarters: 515 St. Catherine St. W., Ste. 825, Montreal, Que. H3B 1B4. Richard W. Murry, Executive V-P.

Canadian Sheet Steel Building Institute

Aims to promote as an industry, Canadian manufacturers of sheet steel building products, steel building systems, and steel farm buildings.

Headquarters: Suite 305, 201 Consumers Rd., Willowdale, Ont. M2J 4G8. D. L. Tarlton, General Manager.

Canadian Shippers' Council

A body composed of 20 trade associations with the purpose of seeking improved communications and

relationships with carrier interests and to deal with matters of harbor facilities, administration and costs, standardization of documents, and government regulations and transportation policy.

Headquarters: Suite 250, 99 Bank St., Ottawa, Ont. K1P 6B9.

Canadian Society for Mechanical Engineering

CSME is a constituent society of the Engineering Institute of Canada. It exists to promote high standards of mechanical and production engineering through information-sharing, education and research, government liaison and through co-operation with other technical societies nationally and

internationally. (See also Production Engineering Division).

Headquarters: Suite 700, 2050 Mansfield St., Montreal. H3A 1Z2. J. D. Barry, communications director.

Ontario: 1027 Yonge St., Suite 102, Toronto, Ont. M4W 2K9.

Canadian Society for Nondestructive Testing Inc.

Organizes technical meetings in various cities, provides material for educational courses.

Headquarters: c/o Mohawk College of Applied Arts & Technology, 135 Fennell Ave. W., Hamilton, Ont. L8N 3T2.



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Canadian Standards Association

A non-profit, non-government association with the objective of promoting the establishment of uniform, nationwide standards of products, processes and procedures, by providing an organization to receive requests for standardization, investigate their desirability and arrange for the formation of committees, comprising representatives of both manufacturers and users, scientific and technical societies, inspection authorities and government departments. The association also provides certification services for manufacturers who, under license from CSA, wish to use the appropriate registered CSA Marks on certain products of their manufacture to indicate conformity with a CSA Standard.

Head Office, including Standards & Certification: 178 Rexdale Blvd., Rexdale, Ont. M9W 1R3.
Ottawa: 280 Albert St., 4th floor, Ottawa, Ont. K1P 5G8.

Pacific Region: 5760 Minoru Blvd., Richmond, B.C. V6X 2A9.

Western Region: 5224-99th St., Edmonton, Alta. T6E 3N7.

Prairie Region: 50 Paramount Road, Winnipeg, Man. R2X 2W3.

Quebec & Atlantic Region: 149 Oneida Dr., Pointe Claire, Que. H9R 1A9.

Agencies: BSI/CSA Agency, Maylands Avenue, Hemel, Hempstead, Herts, HP2 42Q England.
KEMA/CSA Agency, Utrechtseweg 310, Arnhem, The Netherlands.

JMI/CSA Agency, Japan Machinery & Metals Institute 1-21-25 Kinuta, Setagaya-ku, Tokyo, Japan.

Canadian Steel Industry Research Association (CSIRA) - Association Canadienne pour la recherche dans l'industrie sidérurgique (ACRIS)

Headquarters: c/o Miss Iona Skuce, Iron and Steel Div. Resource Industries, Branch 52, Dept. of Industry, Trade and Commerce, 235 Queen St., Ottawa, Ont. K1A 0H5. Chairman: Dr. J. C. McKay.

Canadian Steel Service Centre Institute

Aims to assist in the maintaining of sound and equitable relations between the steel service centre industry and its employees, customers, suppliers, government and the general public.

Headquarters: 345 Lakeshore Road E., Ste. 501, Oakville, Ont. L6J 1J5. W. A. Firstbrook, general manager.

British Columbia: 2675 Oak St., Vancouver, B.C. Felix Smalley, Secretary.

Eastern Canada: 2055 Bishop St., Montreal, Que. Mergol Langendorf, Secretary.

Ontario: 8 King St. E., Suite 1505, Toronto, Ont. Robert Brown, Secretary.

Canadian Testing Association

Promotes the interests of the independent testing laboratories of Canada and through its Free Directory presents a comprehensive picture of the services available through the commercial laboratories.

Headquarters: Suite 207, 159 Bay St., Toronto, Ont. M5J 1J7. Mace Mair, general manager.

Canadian Tooling Manufacturers Association

Aims to discuss common intra-industry problems; provide up-to-date information and assistance to

members on business management; act as spokesman for the industry to the government and the public; promote fellowship among tool and die plant owners.

Headquarters: Box 2204 Walkerville Postal Station, Windsor, Ont. N8Y 4R8.

Canadian Welding Bureau

The bureau is a nonprofit organization established as a division of the Canadian Standards Association to administer Canadian welding standards and specifically to test and list qualified fabricators, inspection companies and welding electrodes.

Headquarters: 254 Merton St., Toronto, Ont. M4S 1A9. J. H. Zimhelt, general manager.

Quebec Region: 149 Oneida Dr., Pointe Claire, Que. H9R 1A9. M. Kriza, Manager.

Mid West Region: 50 Paramount Ave., Winnipeg, Man. R2X 2W3. P. Kuy, Manager.

B.C.-Alberta Region: 5760 Minoru Blvd., Richmond, B.C. V6X 2A9. L. F. Roberts, Manager.

Alberta District: 5224-99th St., Edmonton, Alta. T6E 3N7. R. Bonneau, Area Supervisor; 2827-39th St. S.W., Calgary, Alta. T3E 3G8. A. J. Kathrens, Area Supervisor.

British Columbia District: 5760 Minoru Blvd., Richmond, B.C. V6X 2A9. R. W. Ellis, Supervisor.

Atlantic Region: 5666 Stanley St., Halifax, N.S. B3K 2G1. G. M. Haliburton, Manager.

Cemented Carbide Producers Association

Headquarters: 712 Lakewood Center North, Cleveland, Ohio 44107.

Compressed Gas Association, Inc.

Aims to promote, develop and co-ordinate technical activities in the compressed gas industries, and to provide technical information and scientific data regarding the products of the industry.

Headquarters: 500-5th Ave., New York, N.Y. 10110. Bernhard K. Kuehn, President.

Canadian Division: Fred Adams, 2003 Foxcroft Ave., Mississauga, Ont. L5J 2J6.

Confédération des Syndicats Nationaux

Headquarters: 1001 rue St-Denis, Montreal, Que. H2X 3J1. President: Norbert Rodrigue.

Conveyor Equipment Manufacturers Assn.

Headquarters: 1000 Vermont Ave., N.W., Washington, D.C. 20005. Raymond J. Lloyd, Exec. Vice-President.

Copper and Brass Servicenter

Association

Headquarters: 580 Shoemaker Road, King of Prussia, Pa. 19406. R. F. Brown, Jr., Exec. Vice-President.

Corrugated Steel Pipe Institute

Aims to promote the wider use of corrugated steel pipe and drainage structures in building and civil engineering structures, through product and market research, and through the provision of authentic data on the products.

Headquarters: Suite 207, Crestview Plaza, 1640 Crestview Ave., Mississauga, Ont. L5G 3P9. W. A. Porter, MBA, P.Eng., Gen. Mgr.—Chief Engineer.

Council of Engineering Institutions

Headquarters: 2 Little Smith St., London SW1P 3DL England.

Custom Roll Forming Institute

The CRFI educates the metalworking industry about the benefits of custom roll forming, and provides a forum in which members discuss new manufacturing techniques, equipment and materials.

Headquarters: 522 Westgate Tower, Cleveland, Ohio. 44116.

Cutting Tool Manufacturers' Ass'n

Headquarters: 6735 Telegraph Rd., Suite 120, Birmingham, Mich. 48010. C. Welles Jatho, Exec. Secretary.

Dept. of Energy, Mines and Resources

Many aspects of the production and processing of materials for metalworking are investigated by the Canada Centre for Mineral & Energy Technology. Its specialized personnel and facilities may be made available to outside organizations on a cost recovery basis. Research literature search services on a retrospective or current awareness basis are also available.

Headquarters: 555 Booth St., Ottawa, ON, K1A 0G1.

Dept. of Industry, Trade and Commerce

Responsible for the establishment, growth and efficiency of manufacturing, processing, and tourist industries in Canada and the development of export trade and external trade policies.

Headquarters: 235 Queen St., Ottawa, Ont. K1A 0H5.

New Brunswick: Suite 642, 440 King St., Fredericton, N.B. E3B 5H8.

Prince Edward Island: 97 Queen St., Dominion Bldg., Box 2289, Charlottetown, P.E.I. C1A 8C1.

Newfoundland-Labrador: 127 Waier St., St. John's, Nfld. A1C 5X8.

Nova Scotia: Suite 1124, Duke Tower, 5251 Duke St., Scotia Sq., Halifax, N.S. B3J 1N9.

Quebec: Suite 620, 2 Place Quebec, Quebec City, P.Q. G1R 2B5; P.O. Box 1270, Suite 600, 685 Cathcart St., Montreal, Que. H3B 3K9.

Ontario: 1 First Canadian Place, Suite 4840, Box 98, Toronto, Ont. M5X 1B1.

Manitoba: 507 Munliffe House, 386 Broadway Ave., Winnipeg, Man. R3C 3R6.

Saskatchewan: Room 980, 2002 Victoria Ave., Regina, Sask. S4P 0R7.

Alberta-Northwest Territories: 500 Macdonald Place, 9939 Jasper Ave., Edmonton, Alta. T5J 2W8.

British Columbia-Yukon: Box 49178, Suite 2743, Bentall Centre, Tower 111, 595 Burrard St., Vancouver, B.C. V7X 1K8.

Dept. of Industry, Trade and Commerce (Defence Programs Branch)

The Defence Programs Branch is concerned with the promotion of Canadian participation in cooperative defence research, development and production sharing programs with the U.S.A., NATO and other friendly countries. Also assists Canadian companies in the international marketing and export of defence goods and services.

Headquarters: Ottawa, Ont. K1A 0H5.

Dept. of Industry, Trade and Commerce (Machinery Branch)

Through metalworking industry specialists in Ottawa and the trade commissioners abroad, information on international sales and markets is compiled for Canadian firms. Foreign buyers and Canadian suppliers

are brought together through individual appointments, trade missions and trade fairs.
Headquarters: Machinery Branch Dept. of Industry, Trade & Commerce, 235 Queen St., Ottawa, Ont. K1A 0H5. S. A. Radley and/or W. Baggley, Secondary Industries Machinery Div.

Dept. of Industry, Trade and Commerce (Trade Fairs and Missions Service)

The Trade Development Bureaux are concerned with trade promotion and the export of Canadian products. The four geographic bureaux plan and implement exhibits at trade fairs abroad, outgoing and incoming trade missions, and visits to Canada by foreign buyers and government delegations.
Headquarters: 235 Queen St., Ottawa K1A 0H5. F. W. Myers, Chief, Fairs and Missions Policy and Evaluation.

Department of Supply and Services

The department is composed of two administrations, Supply and Services. Three Crown Corporations: Canadian Arsenals Ltd., Crown Assets Disposal Corporation, the Royal Mint and Statistics Canada are also the responsibility of the Minister of Supply and Services and Receiver General for Canada in Parliament.

Headquarters: Dept. of Supply and Services, Place du Portage, Phase III, 11 Laurier St., Hull, Que. K1A 0S5.

Regional Supply Centres

Nova Scotia: Box 3000, Main Post Office, Dartmouth, N.S. B2Y 4A8.

Quebec: 800 Golf Rd., Nuns' Island, Montreal, Que. H3E 1G9.

Capital Region Supply Centre: 1010 Somerset St. W., Ottawa, Ont. K1A 0T4.

Ontario: 295 The West Mall, Suite 200, Etobicoke, Ont. M9C 5A4.

Manitoba: 266 Graham Ave., Rm. 710, Winnipeg, Man. R3C 3W6.

Western: 2nd floor - Oliver Bldg., 10225 - 100 Ave., Edmonton, Alta. T5J 1J9.

Pacific: 3551 Viking Way, Richmond, B.C. V6V 1W6.

Overseas:

European: MacDonald House, No. 1 Grosvenor Square, London W1X 0AB, England.

Germany: 5400 Koblenz, Mainzer Strasse 39, Postfach 566, Federal Republic of Germany.

Diamond Wheel Manufacturers Institute

Represents manufacturers of diamond wheels of all types and has committees active in the development of dimensional and safety standards for the products of the industry.

Headquarters: 712 Lakewood Center North, Cleveland, Ohio 44107. Allen P. Wherry, manager.

Die Casting Research Foundation

Research arm of American Die Casting Institute Inc.
Headquarters: 2340 Des Plaines Ave., Des Plaines, Ill. 60018.

Drop Forging Research Association

Forging applications, materials selection and treatment, and supplier recommendations on: forging dies, material utilization, heating, mechanization, new processes, noise, and information.

Headquarters: Shepherd St., Sheffield, S3 7BA England.

Ductile Iron Society

Research education and technology transfer to ductile iron industry.
Headquarters: Box 1105, Mountinside, N.J. 07092, Keith D. Mills, Exec. Director.

Economic Council of Canada

An advisory body established by the federal government to recommend ways by which Canada can achieve the highest possible levels of employment and efficient production in order that the country may enjoy a high and consistent rate of economic growth and that all Canadians may share in rising living standards.

Headquarters: P.O. Box 527, Ottawa, K1P 5V6.
 Chairman: Dr. David W. Slater

Electrical and Electronic Manufacturers Association of Canada

Aims to promote and further the interest of manufacturers of electrical and electronic equipment and to stimulate the interest of the public in the manufacturing, engineering, safety, transportation and other problems of the electrical industry.

Headquarters: One Yonge St., Suite 1608, Toronto, Ont. M5E 1R1. President: D. E. P. Armour.

Branch: 77 Metcalfe St., Ottawa, Ont. K1P 5L6.
 Executive V-P, Hon. L. Balcer.

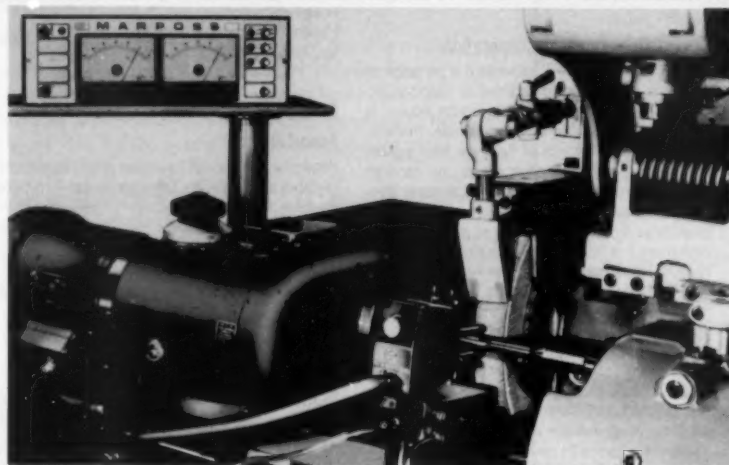
The Electrochemical Society Inc.

Headquarters: 10 South Main St., Pennington, N.J. 08534.

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Information sources

Electronic Industries Association

The EIA Engineering Department sets standards for numerous electronic parts and processes. The Marketing Services Department provides statistical reports on the U.S. electronics industry. Headquarters: 2001 Eye St. N.W., Washington, D.C. 20006. Peter F. McCloskey, President.

Engine Manufacturers Association

The EMA is a trade association of leading manufacturers of internal combustion engines. It functions primarily to assist members by conducting research, developing test procedures, establishing recommended technical standards, providing a voice for the industry and acting as a forum for exchanging information. Headquarters: 111 E. Wacker Dr., Chicago, Ill. 60601.

Engineering Institute of Canada

The "umbrella" organization for a series of Canadian constituent engineering societies, the chief one in the metalworking field being The Canadian Society for Mechanical Engineering. Headquarters: 2050 Mansfield St., Ste. 700, Montreal, P.Q. H3A 1Z2. J. D. Barry, Communications Director. Toronto Office: Suite 102, 1027 Yonge St., Toronto, Ont.

Export Development Corporation

A Crown Corporation that provides a wide range of insurance and guarantee services to Canadian exporters and arranges credit for foreign buyers in order to facilitate and develop export trade. The facilities include: 1) insurance of Canadian firms against non-payment when Canadian goods and services are sold abroad; 2) insurance for Canadian firms against wrongful calls on performance securities and guarantees for banks providing securities related to performance or bids; 3) insurance and guarantees to financial institutions against losses incurred in financing either the Canadian supplier or the foreign buyer in an export transaction; 4) medium-term supplier financing through the purchase of promissory notes issued to an exporter by a foreign buyer (forfeiting); 5) long-term financing in the form of direct buyer credits, and allocations under lines of credit to foreign purchasers of Canadian capital equipment and services; 6) guarantees against loss of Canadian investments abroad by reason of political actions. Head Office: P.O. Box 655, Ottawa, Ont. K1P 5T9. Sylvain Cloutier, President and Chairman of the Board. Quebec Region: P.O. Box 124, Tour de la Bourse, Montreal, P.Q. H4Z 1C3. D. Mackey, Ass't Vice-President. Atlantic Office: 1791 Barrington St., Suite 1401, Halifax, N.S. B3J 3L1. C. T. Wood, manager. Ontario Region: P.O. Box 64, 1 First Canadian Place, Toronto, Ont. M5X 1B1. G. R. Hammond, Ass't Vice-President. Western Region: Suite 1030, One Bentall Centre, 505 Burrard St., Vancouver, B.C. V7X 1M5. R. G. Hunt, Ass't Vice-President.

Fluid Power Society

An organization of persons engaged or interested in the development and use of pneumatic and hydraulic power. Principal object is to promote educational programs in fluid power and related subjects. Headquarters: 909 North Mayfair Road, Milwaukee, Wis. 53226. Giles R. Flanagan, exec. vice-president.

Food Processing Machinery & Supplies Ass'n.

An annual international exposition of equipment, supplies and services for food processors. Headquarters: 1828 "L" Street N.W., Suite 700, Washington, D.C. 20036. W. D. Clower, President.

Forging Industry Association

Trade Association for Forging of U.S. and Canada. Headquarters: 1121 Illuminating Bldg., 55 Public Square, Cleveland, O. 44113. R. W. Atkinson, exec. vice-pres.

Foundry Equipment Manufacturers Association Inc.

Headquarters: 1000 Vermont Avenue N.W., Washington, D.C. 20005. Robert J. Daugherty, Exec. Sec.-Treas.

French Machine Tool Builder's Association

Syndicat Des Constructeurs Français De Machines-Outils. Headquarters: B.P. 117, 150 boulevard Bineau, F-92203 Neuilly Sur Seine Cedex, France.

Gas Appliance Manufacturers Ass'n., Inc.

Trade association serving the gas appliance and equipment industry. Headquarters: 1901 North Fort Myer Drive, Arlington, Virginia 22209. Harry A. Paynter, president.

German Machine Tool Builders Association

Headquarters: Verein Deutscher Werkzeugmaschinenfabriken e.V. (VDW), Corneliusstrasse 4, D-6000 Frankfurt 1, West Germany.

Grinding Wheel Institute

Headquarters: 712 Lakewood Center North, Cleveland, Ohio 44107.

Industrial Accident Prevention Association of Ontario

Aims to reduce accidents among all employees in manufacturing and retail industries in Ontario. This includes the woodworking, ceramics, metal, chemical, milling, food, leather, rubber, textile, printing, and retail trades. Full scope of services is provided. Headquarters: 2 Bloor St. E., 23rd Floor, Toronto, Ont. M4W 3C2. J. V. Findlay, P.Eng. exec. vice-president & general manager.

Industrial Estates Ltd.

A Nova Scotia Crown Corporation created to promote and support the establishment and expansion of manufacturing industries throughout the Province. Can finance at competitive interest rates up to 100% of the cost of land and buildings and up to 60% of the installed cost of production machinery of a new enterprise or plant expansion. Financing of land and buildings over a twenty year period, and of machinery over ten years is customary. In addition can design an incentives program to suit the needs of a project after evaluation of the economic impact of the project on Nova Scotia and Canada. Headquarters: Suite 700, 5151 George St., Halifax, N.S. B3J 1M5.

Industrial Heating Equipment Association

Headquarters: 1901 N. Moore St., Arlington, Va. 22209. James J. Houston, Exec. Vice-President.

Industrial Instrument Manufacturers' Association

Aims to foster as an industry Canadian manufacturers of indicating, recording and controlling instruments for industrial purposes. Headquarters: Suite 1400, One Yonge St., Toronto, Ont. M5E 1J9.

Industrial Management Clubs of Canada

Headquarters: One Yonge St., Toronto, Ont. M5E 1J9.

Industrial Management Society and Film Library

Maintain a large industrial and business library of 16 MM films on these subjects: Work performance rating, methods improvement, work simplifications, office and clerical operations, hotel and hospital operations, industrial engineering and management training and education, industrial engineering techniques, motion economy, work samplings, zero defects, middle management training, numerical control and E.D.P., economy and pollution control, health and safety. ¼ in. video tapes are also available. IMS Industrial Engineering & Management Clinic is held annually in the Chicago area. Details available through headquarters. Headquarters: 570 Northwest Hwy., Des Plaines, Ill. 60016. Robert P. Admek, Film Library Director.

Industrial Safety Equipment Ass'n. Inc.

Association represents manufacturers of industrial safety equipment; devoted to promotion of efficient and practical personal protective equipment for industry; participates with federal governments and national standards bodies in development of specifications and performance standards. Headquarters: 1901 N. Moore St., Arlington, Va. 22209. Frank E. Wilcher, Jr., Exec. Director.

Industrial Truck Association, The

Engineering and Safety. Headquarters: 1326 Freeport Rd., Pittsburgh, Pa. 15238. L. West Shea, Managing Director.

Industrial Truck Association of Canada

Comprises companies who manufacture or assemble powered industrial trucks in Canada (not highway trucks), as well as companies who supply parts and accessories to these truck manufacturers. Headquarters: One Yonge St., Suite 1400, Toronto, Ont. M5E 1J9.

Institute of Electrical and Electronic Engineers

An organization whose aims are scientific, literary and educational, directed toward the advancement of the theory and practice of electrical engineering, electronics, radio and the allied branches of engineering and the related arts and sciences. Headquarters: 345 E 47th St., New York, N.Y. 10017.

Institute of Industrial Engineers

A professional technical society dedicated to the

Information sources

advancement of the art and science of industrial engineering through regular technical meetings, conferences, research and study groups as well as cooperation with educational institutions engaged in the teaching of industrial engineering and related management subjects.

Headquarters: 25 Technology Park, Atlanta, Norcross, Ga. 30092. Exec.-Director, David L. Belden. Toronto: B. J. Emmons, 963 Bowler Dr., Pickering, Ont. L1V 3K3.

Western Ontario: Alan V. Owens, Woods Gordon and Company, 43 Gatineau Cres., London, Ont. N6K 2Z8.

Essex-Kent: Ernest St. Denis, 2611 Joseph St. Louis, Windsor, Ont. N8T 1W2.

Manitoba: Tony Gould, Boeing of Canada, Ltd., 99 Murray Park Rd., Winnipeg, Man. R3J 3M6.

Montreal: Michel Ravacley, 4960 Nancy, Pierrefonds, Que. H8Z 2A1.

Ottawa Valley: Peter Johnson, 175 State St., Box 1342, Almonte, Ont. K6V 5W8.

Western Canada: M. J. Stoner, B.C. Telephone, 6969-10th Ave., Burnaby, B.C. V3N 2R4.

Niagara Peninsula: Nicholas A. Pollice, E.D. Smith & Sons, Highway 8, Winona, Ont. L0R 2L0.

Wellington-Waterloo: John Lupton, P.O. Box 2784, Stn. B, Kitchener, Ont. N2M 3E2.

Foothills: Norman C. Dymond, Southern Alberta Institute of Technology, 1301-16th Ave. N.W., Calgary, Alta. T2M 0L4.

Institute of Scrap Iron & Steel, Inc.

Headquarters: 1627 "K" St. N.W., Washington, D.C. 20006.

Institution of Electrical Engineers

Headquarters: Savoy Place, London WC2R 0BL, England.

Montreal Branch: Hon. Sec. H. C. Curtis, 478 Prince Arthur, Beaconsfield, Que. H9W 3L2.

Toronto Branch: Hon. Sec. J. W. Spencer, 39 Chiefwood Sq., Agincourt, Ont. M1W 3A9.

Ottawa Branch: Hon. Sec. R. B. Dunn, 19 Centrepark Dr., Ottawa, Ont. K1K 3C2.

B.C. Rep.: N. M. Lopianowski, Cantel Engineering Assocs. Ltd., 402 W. Pender St., Vancouver, B.C. V6B 1T6.

Ontario Rep.: E. D. Holdup, 26 Cardigan Rd., Toronto, Ont. M8B 2W2.

Ottawa Rep.: P. J. Haines, 24 Dickson St., Ottawa, Ont. K2H 7H5.

Quebec Rep.: J. F. Lindsay, Faculty of Engineering, Concordia University, 1455 De Maisonneuve Blvd., Montreal, Que.

The Institution of Mechanical Engineers

Headquarters: 1 Birdcage Walk, Westminster, London SW1H 9JJ England.

Ontario: K. R. McIntyre, 148 Walby Dr., Oakville, Ont. L6L 4G2.

Quebec: J. Ruckelshaus, 144 Monterrey Ave., Pointe Claire, Que. H9R 3W4.

British Columbia: J. Chapman, Wright Engineers Ltd., 1444 Alberni St., Vancouver, B.C. V6G 2Z4.

Instrument Society of America

ISA serves the educational needs of users and manufacturers of instrumentation and automation equipment and systems for industrial, laboratory, biophysical, marine and space environments. Conducts symposia and publishes proceedings on instrumentation in the metals industry. Special-interest Division on Metals Industry.

Headquarters: P.O. Box 12277, 67 Alexander Dr., Research Triangle Park, N.C. 27709. Glenn F. Harvey, Executive Director.

Toronto: D. H. Emanuele, Fischer & Porter Ltd., 134 Norfinch Dr., Downsview, Ont. M3N 1X7.

Calgary: E. R. Linney, Shawinigan Engineering Western, 401-808 Fourth Ave. S.W., Calgary, Alta. T2P 0K4.

International Association of Machinists and Aerospace Workers

Canadian Office: Ste. 600, 331 Cooper St., Ottawa, Ont. K2P 0G5.

International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers

Headquarters: New Brotherhood Bldg., 8th and State Ave., Kansas City, Kansas 66101.

Eastern Canada: John D. Carroll, International Vice-President, 2 Dunbloor Road, Suite 107, Islington, Ont. M9A 2E4.

Western Canada: Donald G. Whan, 17205-106A Ave., Ste. 206, Edmonton, Alta. T5S 1M7.

International Molders and Allied Workers Union, AFL-CIO-CLC

Headquarters: 1225 E. McMillan St., Cincinnati, O. 45206.

Toronto: 951 Dufferin St., Toronto, Ont. M6H 4B3.

London: 450 Highbury Ave., London, Ont. N5W 5L2.

Calgary: 229-11th Ave. S.E., Room 200, Calgary, Alta. T2G 0Y1.

Winnipeg: 1-1080 Wall St., Winnipeg, Man.

Vancouver: 9-1654 Renfrew St., Vancouver, B.C. Canadian V.P., Edward C. Withames.

International Tin Research Institute

Aids all persons and associations interested in research and information on the use and development of tin.

Headquarters: Fraser Road, Perivale, Greenford, Middlesex, UB6 7AQ, England.

(Enquiries from Canada) Tin Research Institute, Inc., 1353 Perry St., Columbus, Ohio 43201. Joseph B. Long, Manager.

International Union, United Automobile, Aerospace and Agricultural Implement Workers of America—UAW

Headquarters: 205 Placer Court, North York, Wiltondale, Ont. M2H 3H9.

Iron Castings Society

A trade association of the ferrous foundry industry in the U.S.A. and Canada that supports the industry with research, marketing, finance, safety and other management programs. The society's research and technical activities are customer oriented to developing and providing useful data on casting, design, properties and application.

Headquarters: Cast Metals Federation Bldg., 20611 Center Ridge Rd., Rocky River, Ohio 44116. Donald H. Workman, Exec. Vice-President. (After Apr. 1, 1982: 455 State St., Des Plaines, Ill. 60016.)

Italian Machine Tool Builders' Association

Unione Costruttori Italiani Macchine Utensili. Headquarters: U.C.I.M.U., Viale Fulvio Testi 128, 20092 Cinisello Balsamo (Milano), Italy.

Japan Machine Tool Builders' Association

Organization represents 108 manufacturers whose aim is to display and demonstrate equipment throughout the world, to provide public relations activities for machine tool trade promotion, and to participate in various trade shows in the machine tool field.

Headquarters: Kikai Shinko Bldg., 3-5-8, Shiba Koen, Minato-Ku, Tokyo 105, Japan.

Japan Trade Centre

Provides import/export information regarding Japanese machinery and industrial equipment.

Headquarters: 151 Bloor St. W., Suite 850, Toronto, Ont. M5S 1S8.

Joint Industrial Council

Handles electrical, electronic, hydraulic and pneumatic machine tool application standards on a total system basis.

Headquarters: 7901 Westpark Dr., McLean, Va. 22102.

Lead Industries Association

Lead Industries Association is a Trade Association supplying information on lead free of charge to users and potential users.

Headquarters: 292 Madison Ave., New York, N.Y. 10017.

MIM Management Centre

Non-profit organization offering short courses and seminars in wide variety of subjects related to raising level of management skills. Also in-house seminars and counseling.

Headquarters: 193 Sherbrook St., Winnipeg, Man. R3C 2B7.

Ontario: Ste. 110-2175 Sheppard Ave. E., Willowdale, Ont. M2J 1W8.

British Columbia: 308-698 Seymour St., Vancouver, B.C. V6B 3K6.

The Machine Tool Trades Association

Headquarters: 62 Bayswater Rd., London, W2 3PH. Director General, Roy K. Ward.

Machine Tools of Spain Association

Headquarters: 5741 Howard St., Niles, Ill. 60648. Oscar Katov, General Manager.

Machinery and Allied Products Institute

Serves as economic and management research organization for US capital goods producers. Conducts seminars and conferences; active government relations program.

Headquarters: 1200-18th Street N.W., Washington, D.C. 20036.

Machinery Dealers National Association

An international trade association of the used machinery industry with the aim of better serving the machine tool users. Members follow a code of ethics in machinery transactions. Services: Appraise plant equipment & machinery; locate quality machinery; financial plans—leasing, mortgaging, renting; sell quality machines; aid in rigging & hauling—advise of reliable haulers, negotiate shipping; provide manuals to troubleshoot machines; rebuild & recondition machinery; auction & liquidate surplus equipment; plant relocations—advise of facilities & available resources in different areas; advertise and sell machinery on brokerage basis; location of in-plant services; provide maintenance service.

Headquarters: 1110 Spring St., Silver Spring, Md. 20910.

Machinery and Equipment Manufacturers' Association of Canada

Aims to encourage the manufacture within Canada of machinery and industrial equipment of all kinds in the interests of Canadian industry; to develop markets within and outside Canada for machinery products; to promote public interest in the use of machinery and industrial equipment of Canadian origin and the use of other domestic products in general.
Headquarters: 116 Albert St., Suite 701, Ottawa, Ont. K1P 5G3. J. R. Romanow, President.
British Columbia Section: 1056 West 47th Ave., Vancouver, B.C. V6M 2L4.

The Malaysian Tin Bureau

Data on tin production, marketing and consumption.
Headquarters: Ste. 913, 1625 Eye St., N.W., Washington, D.C. 20006. Director: George Kam.

Manitoba Dept. of Economic Development & Tourism

The department offers assistance in all aspects of establishing or expanding manufacturing facilities in the province; identifies new manufacturing opportunities; engineering and technical advisory services; new product design and development; development of export markets; economic and market research surveys; manufacturing under license agreements; Enterprise Manitoba, a \$44 million federal/provincial shared growth program provides comprehensive industrial development assistance to selected industry sectors and to rural small enterprise.
Headquarters: Legislative Bldg., Winnipeg, Man. R3C 0V8. Hon. J. Frank Johnston, Minister.

Manufacturers Standardization Society of the Valve & Fittings Industry Inc.

Headquarters: 5203 Leesburg Pike, Suite 502, Falls Church, Va. 22041. Robert V. Warrick, exec. secretary.

Marking Device Association

Headquarters: 708 Church St., Evanston, Ill. 60201. Thomas H. Brinkman, Sec.-Secretary.

Material Handling Equipment Distributors Association

Members are distributors and manufacturers who specialize in the distribution of materials handling equipment. MHEDA activities are ultimately designed to help manufacturers and dealers better serve their customers.
Headquarters: Route 45, Box 253, Vernon Hills, Ill. 60061, U.S.A. Daniel R. Reilly, Exec. Vice-President.

The Material Handling Institute, Inc.

Material handling educational sessions, and the National Material Handling Show.
Headquarters: 1326 Freepoint Rd., Pittsburgh, Pa. 15238. Philip Trimble, managing director.

Metal Cookware Manufacturers Ass'n.

Headquarters: P.O. Box J, Walworth, Wis. 53184. Paul Uetzmann, Exec. Vice-President.

Metal Cutting Tool Institute

Headquarters: 1230 Keith Bldg., Cleveland, Ohio 44115.

Metal Finishers' Foundation

Active in pollution abatement research and develop-

ment.

Headquarters: 111 East Wacker Dr., Chicago, Ill. 60601. Herbert R. Mack, President.

Metal Polishers, Buffers, Platers and

Allied Workers International Union

Headquarters: 5578 Montgomery Rd., Cincinnati, O. 45212. President-Secretary-Treasurer: James Siebert.

Metal Trades Accident Prevention Association

Aims to reduce the work injuries among employees of the metal trades in the province of Ontario through education and training. One of 10 chartered associations under IAPA.

Headquarters: 2 Bloor St. E., 23rd Floor, Toronto, Ont. M4W 3C2. J. V. Findlay, Executive V-P and General Manager.

Metal Treating Institute

International trade association of commercial heat treating companies.

Headquarters: 1311 Executive Center Dr., Tallahassee, Fla. 32301. M. Lance Miller, Executive Director.

The Metallurgical Society of AIME

Headquarters: 420 Commonwealth Dr., Warrendale, Pa. 15086. Alexander R. Scott, Executive Director.

Metals Research and Development Foundation

Headquarters: Cast Metals Federation Bldg., 20611 Center Ridge Rd., Rocky River, Ohio 44116. Secretary: Clayton Slirzaker.

Methods-Time Measurement Association for Standards and Research (MTM Association)

Organized internationally for communications between business and industrial methods analysts on Method-Time Measurement techniques and research in these methods. MTM is a procedure which analyzes any manual operation or method into the basic motions required to perform it and assigns a method and time standard to it.

Headquarters: 16-01 Broadway, Fair Lawn, N.J. 07410. James P. O'Brien, Exec. Director.

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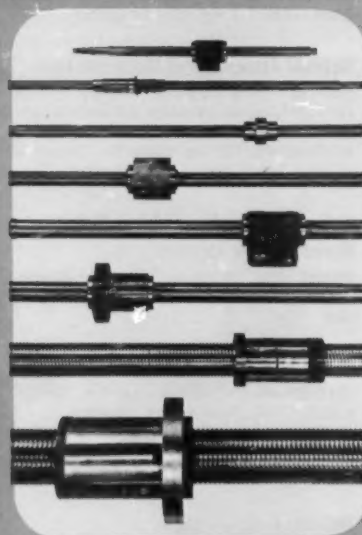
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Motor Vehicle Manufacturers' Association

Formed in 1926 "for the purpose of acting with the Government to promote the manufacture of automobiles in Canada and the development of this business throughout the world . . ." Membership is open to any Canadian manufacturer of motor vehicles. Headquarters: 25 Adelaide St. East, Suite 1602, Toronto, Ont. M5C 1Y7. James G. Dykes, President.

National Ass'n. of Aluminum Distributors

Headquarters: 1900 Arch St., Philadelphia, Pa. 19103. R. Bruce Wall, Exec. Vice-President.

National Ass'n. of Architectural Metal Manufacturers

Headquarters: 221 N. LaSalle, Suite 206, Chicago, Ill. 60601. August L. Sisco, Executive Director.

National Ass'n. of Chain Manufacturers

Headquarters: 500 North Michigan Ave., Chicago, Ill. 60611. Ross G. Wilcox, Exec. Vice-President.

National Association of Corrosion Engineers

Aims to promote the advancement of knowledge and application of the science of corrosion prevention. Encourages special research and study to determine the fundamental causes of corrosion, and to develop new techniques for its prevention. Headquarters: 1440 South Creek Dr., Houston, Texas 77084. T. J. Hull, Executive Director.

National Association of Metal Finishers

Publishes monthly magazine "Finishers' Management", holds annual convention and Business Seminar/Exhibition. Headquarters: 111 East Wacker Dr., Chicago, Ill. 60601. J. Dollard Carey, Executive Director.

National Association of Name Plate Manufacturers, Inc.

Headquarters: 1000 Vermont Ave. N.W., Washington, D.C. 20005. Kenneth M. Sufka, Exec. Vice-President.

National Ass'n. of Suggestion Systems

Headquarters: 230 North Michigan Ave., Chicago, Ill. 60601. Oliver S. Hallett, Exec. Secretary. Golden Horseshoe Chapter: James Tilley, President, Petrosar Ltd., 785 Hill St., Corunna, Ont. N0N 1G0.

National Design Council

The mandate of the National Design Council is to recommend to the Minister of the Department of Industry, Trade and Commerce policies and programs for improving the quality of design in Canada and to identify methods to assist industry in developing and applying good design techniques. The 17 members of the Council are appointed from key sectors in our society and economy: industry, commerce, organized labour, distribution, architecture, engineering, design, and the federal government. Headquarters: #62, 235 Queen St., Ottawa, Ont. K1A 0H5.

National Foundry Association

Serves foundry management. Labor relations is the

major activity.

Headquarters: 455 State St., Ste. 201, Des Plaines, Ill. 60016. Executive V-P: Charles T. Sheehan.

National Machine Tool Builders' Ass'n.

Headquarters: 7901 Westpark Drive, McLean, Va. 22102 U.S.A.

National Marine Manufacturers Association

Headquarters: 401 North Michigan Ave., Chicago, Ill. 60611. Frank Scalpone, Exec. Vice-President.

National Research Council of Canada Technical Information Service

A free service providing technical information to all Canadian manufacturing companies on problems involving the properties and processing of materials, on new developments in technology and research, and on industrial engineering techniques to improve operating efficiency of plants. Field engineers in major cities across Canada, backed up by an Ottawa staff, draw upon the world's technical literature and the knowledge and experience of scientists and engineers in Government laboratories, on industrial firms and associations, and foreign technical information services to answer enquiries. Headquarters: Bldg. M-55, Montreal Rd., Ottawa, Ont. K1A 0S3.

National Screw Machine Products Association

Deals with common management and technical problems of the screw machine industry of the U.S. and Canada and develops programs to assist producers to operate more efficiently.

Headquarters: 6700 W. Snowville Road, Brecksville, Ohio 44141.

Canadian Chapter: National Screw Machine Products Association, c/o Jancee Screw Products Ltd., 1723 Mattawa Ave., Mississauga, Ont. L4X 1K5. W. B. Cox, National Trustee.

National Tool & Machining Ass'n.

Complete aids & services for member companies in areas of business management, government, labor & industrial relations, industry operation & industrial training.

Headquarters: 9300 Livingston Rd., Washington, D.C. 20022. Wm. E. Hardman, Exec. V.P.

New Brunswick Dept. of Commerce & Development

Department promotes the establishment of new industries and the expansion of existing ones in the province. Assistance and guidance is given with engineering problems, construction techniques, and forest utilization, and on marketing, distribution, labor availability and rates, forms of business organizations and data on doing business in various communities. The Industrial Development Board guarantees loans or provides loans to firms wanting to establish in the province.

Headquarters: Dept. of Commerce & Development, P.O. Box 6000, Fredericton, N.B. E3B 5H1. Deputy Minister: Pat Blanchard.

Non-Ferrous Founders' Society, Inc.

Headquarters: 221 North LaSalle St., Chicago, Ill. 60601. August L. Sisco, Exec. Director.

Nova Scotia Dept. of Development

Offers business and industry a variety of programs and services for business development including business funding and advice from the Business Development Centre, trade-related industries from the Nova Scotia Resources Development Board, loans to small business through the Small Business Development Corp. The Department administers a Venture Capital Act and includes an Industrial Benefits Office to take advantage of major federal and private sector projects, particularly in energy. Industrial Estates Limited is the Crown Corporation for the development of industry in Nova Scotia. IEL assists in financing new and expanding businesses, frequently in cooperation with the federal Department of Regional Economic Expansion (DREE). Headquarters: Dept. of Development, P.O. Box 519, Halifax, N.S. B3J 2R7. Industrial Estates Limited, Ste. 700, 5151 George St., Halifax, N.S. B3J 1M5.

Numerical Control Society

A technical society founded to provide opportunities to contribute to and learn about the application and Technology of numerical control—CAD/CAM in all industry. The main objectives are to promote the advancement and diffusion of knowledge and application of numerical control.

Headquarters: 519-520 Zenith Drive, Glenview, Ill. 60025. Ronald C. Hunt, Exec. Vice-President.

Central Ontario Chapter: Keith Law, Cincinnati Milacron, Canada, Ltd., 122 N. Queen St., Toronto, Ont. M8Z 2E4.

Montreal Chapter: Rene Wenker, Williams & Wilson Co., 544 Inspector St., Montreal, P.Q. H3C 2K9.

Ontario Association of Certified Engineering Technicians and Technologists (OACETT)

Members are registered as engineering technicians and technologists. OACETT promotes professional status and education of its members.

Headquarters: 40 Orchard View Blvd., Suite 253, Toronto, Ont. M4R 2G1. Executive Director: P. W. Newman.

Ontario Development Corporation

Provides financial and advisory services to firms operating in the province. Makes incentive loans to qualifying corporations and offers term financing and bank guarantees to meet a variety of business development requirements.

Headquarters: 1200 Bay St., Toronto, Ont. M7A 2E7.

Canadian Industrial Innovation Centre (CIIC)

The role of the Centre is to increase the quantity and improve the quality of technological innovation in Canada. Areas for encouragement include: invention development and utilization; enterprise and entrepreneur development; student inventors and entrepreneurs; education for innovation; and research in innovation processes.

Headquarters: 156 Columbia St. West, Waterloo, Ont. Director: Frank Phipps.

Ontario Ministry of Industry & Tourism

Trade Development—A service for Ontario companies seeking marketing assistance for the domestic and export markets, locates agents, buyers, sales leads, etc.

Industrial Development—Assists in bringing new industry into the province, through the establishment

Information sources

of branch plants, joint ventures, licensing arrangements, mergers and acquisitions. Also assists Ontario companies in arranging manufacturing facilities abroad.

Headquarters: 900 Bay St., Toronto, Ont. M7A 2E4.
J. Rush, Director, Trade Development Branch. J. Blanchard, Director, Industrial Development Branch.

Ontario Research Foundation

Provides industry, consultants and governments with a multi-disciplinary, technological resource to augment in-house competence and facilities. Major areas of interest to the metalworking industries are physical and mechanical testing, metallography, X-ray and microprobe analysis, design engineering, composites and powder metallurgy.

Headquarters: Sheridan Park, Mississauga, Ont. L5K 1B3. T. E. Kingry, Manager, Marketing Services.

Ontario Society for Training and Development

Aims to unite those engaged in training for business and industry; to encourage the study of training results and to assist in the development of training techniques; to promote a better understanding of the applications and potential of modern training.

Headquarters: P.O. Box 537, Stn. "K", Toronto, Ont. M4P 2G9. David Clark, Executive Administrator.

Order of Engineers of Quebec

The licensing body for the practice of engineering in the province.

Headquarters: Ordre des ingénieurs du Québec, 2075 University St., Suite 1100, Montreal, P.Q. H3A 1K8. Jacques Soucy, exec. director.

Packaging Association of Canada

Aims to promote the study, knowledge and understanding of improved techniques for packaging, packing, shipping, storing and general handling of goods, commodities and merchandise of all kinds, and for reducing the costs of all such processes.

Headquarters: 10 St. Mary St., Toronto, Ont. M4Y 1P9. L. G. Jamison, President.

Powder Actuated Tool Manufacturers' Institute Inc.

PATMI's purposes are to further the development of the powder actuated fastening tool industry, to encourage safe use and application of powder actuated fastening tools and to encourage research in this field.

Headquarters: 435 N. Michigan Ave., Suite 1717, Chicago, Ill. 60611. T. David McFarland, Executive Director.

Powder Metallurgy Parts Ass'n.

Provides technical literature and materials standards.

Headquarters: 105 College Rd. E., Princeton, N.J. 08540.

Production Engineering Division CSME

This is a division of Canadian Society for Mechanical Engineering (CSME). It exists to promote high standards of production engineering through information-sharing, education and research, and through close co-operation with other production-oriented techni-

cal societies active in Canada. It aims to play a leading role in the development of Canada's production efficiency.

Headquarters: 2050 Mansfield St., Ste. 700, Montreal, Que. H3A 1Z2. J. D. Barry, Communications Director.

Ontario: 1027 Yonge St., Suite 102, Toronto, Ont. M4W 2K9.

Production Engineering Research Association of Great Britain

PERA offers the following services: research & development, consultancy, advisory, training, information in manufacturing techniques and management.

Headquarters: Melton Mowbray, Leicestershire, LE13 0PB, England.

Purchasing Management Association of Canada

Aims to improve procurement and materials management practice; to provide service to its members; to encourage research and development in the procurement and materials management field; to establish and encourage the application of high standards of ethical conduct; to further the status of the profession; to promote co-operation among its members and with other purchasing associations.

Headquarters: 2 Carleton St., Ste. 917, Toronto, Ont. M5B 1J3. David Tyler, Executive V-P.

Quebec Dept. of Industry, Commerce & Tourism

Promotes the development and expansion of the secondary sector of Quebec's economy, mainly by facilitating the establishment of new enterprises and the expansion of existing concerns. The Department guides businessmen in the selection of favorable sites taking into account markets and raw material considerations.

Headquarters: 710 Place d'Youville, Québec, Qué. G1R 4Y4. Deputy Minister: Claude Descoteaux; Services to Business Firms, assistant deputy minister: Ronald Clark; Industry branch, assistant deputy minister: Patrick Hyndman, director general: Onil Roy, Director coordination and programs: Michel Gauthier, Director machinery and equipment: André Caron, Service head machinery, machining and metal stamping: Gilles Deslisle.

Société de développement industriel: 800 Place Victoria, Montréal, Qué. H4Z 1E8. President: François Lebrun.

Montréal: 1 Place Ville-Marie, Montréal, Qué. H3B 3M6. Chemicals and Resource Processing, Service head, metal products: Rémi Kelly.

The Refractories Institute

An industry association to promote the interests of manufacturers and consumers of refractory products.

Headquarters: One Oliver Plaza, Pittsburgh, Pa. 15222. Paul A. Crouch, President.

The Research & Productivity Council

Design and manufacture and testing of prototype machinery. Hydraulic, electrical, and mechanical services. Physical testing and metallurgical analysis.

Headquarters: Box 6000, Fredericton, N.B. E3B 5H1.

Resistance Welder Manufacturers' Ass'n.

Headquarters: 1900 Arch St., Philadelphia, Pa. 19103. Tony Carroll, Executive Director.

Roll Manufacturers Institute

Headquarters: 1408 Investment Building, Pittsburgh, Pa. 15222. A. G. Karp, Exec. Secretary.

Rubber Association of Canada

Includes the leading Canadian manufacturers of industrial rubber products used by the metalworking industries.

Headquarters: Ste. 308, 89 Queensway West, Mississauga, Ont. L5B 2V6. J. Doran Moore, President.

Saskatchewan Dept. of Industry and Commerce

Offers industry and market development programs to Saskatchewan manufacturers and small businesses.

(1) Aid to Trade: Percentage of expenses paid to manufacturers wishing to extend their market areas through trade fairs, missions, incoming buyer visits, sample shipments and product promotions. (2) Product Development: Percentage of costs paid to manufacturers and processors for developing new products, modifying/improving existing products, developing special processes, and financing product tests. (3) Management Development: Percentage of costs paid to manufacturers and processors to hire management consultants; financial support for attendance at management development courses and seminars. (4) Small Industry Development: Forgivable loans provided to manufacturers and processors to expand, modernize or establish their businesses. (5) Small Business Interest Abatement: Abatement grant for small business to help them lower the interest rate of term financing.

Headquarters: Third Floor, 2121 Saskatchewan Dr., Regina, Sask. S4P 3V7. Hon. Norman Vickar, Minister; J. Bugera, Deputy Minister.

Branches: 1219-5th St., Estevan S4A 0Z5; 217-110 Ominica West, Moose Jaw S6H 6V2; Rm. 326, 1146-102nd St., North Battleford S9A 1E9; 11th Floor, McIntosh Mall, 800 Central Ave., Prince Albert S6V 6Z2; 9th Floor, 122-3rd Ave. North, Saskatoon S7K 2H6; 350 Cheadle St. West, Swift Current S9H 4G3; P.O. Box 879, SGI Bldg., Tisdale S0E 1T0; 41 Broadway West, Yorkton S3N 0L6.

Saskatchewan Economic Development Corp. (SEDCO)

A provincial crown corporation prepared to assist business or industry to establish or expand operations in the Province of Saskatchewan.

Loans—for working capital or fixed assets secured by mortgage pledge of assets for terms up to 20 years, interest rates vary according to terms.

Leases—industrial property and buildings owned by SEDCO, or constructed to tenant's purposes.

Venture capital—for industrial companies offering growth possibilities.

Head Office: 1106 Winnipeg St., Regina, Sask. S4P 3M3.

Branches: 64-13 St. West, Prince Albert, Sask. S6V 3E8. 241-2 Ave. South, Saskatoon, Sask. S7K 1K8. Inquiry Centres: 4723-50th Ave., Lloydminster, Sask. S9V 0P5; 315 Professional Bldg., 12 Cheadle St. West, Swift Current, Sask. S9H 0A8.

Scale Manufacturers Association

Headquarters: 1000 Vermont Ave. N.W., Washington, D.C. 20005-4979. Raymond J. Lloyd, Exec. Director.

Sheet Metal Workers' International Association

Vice-President in Canada: Laurent Lemoine, 7851 Jarry East, Anjou, P.Q. H1J 2C3.

Shipbuilders Council of America

Headquarters: 1110 Vermont Ave. N.W., Washington, D.C. 20005. President: Edwin M. Hood.

Society of Automotive Engineers

Headquarters: 400 Commonwealth Dr., Warrendale, Pa. 15096.

Society of Carbide and Tool Engineers

Aims for wider and better understanding of carbide and associated materials and diffuses relevant information through 18 chapters in the U.S. and Canada. Official publication: The Carbide and Tool Journal. Headquarters: P.O. Box 437, Bridgeville, Pa. 15017.

Society of Die Casting Engineers

An organization for the development and dissemination of knowledge of die casting and related crafts. Develops and publishes textbooks on die casting and related subjects, presents educational courses on die casting. Society publishes an official bi-monthly magazine and sponsors biennial SDCE International Die Casting Exposition Congress. Headquarters: Trilon College Campus, 2000 Fifth Ave., River Grove, Ill. 60171. Toronto Chapter: Ralph G. Webbe, Jutras Die Casting Ltd., Div. of Castco International, 41 Passmore Ave., Agincourt, Ont. M1S 3B2. Montreal Chapter: Victor T. Podd, Power Cast, Inc., P.O. Box 485, Montreal, Que. H3P 3C7.

Society of Manufacturing Engineers

Dedicated to advancing manufacturing technology through the continuing education of manufacturing engineers and "to advance scientific knowledge in the field of manufacturing engineering and to apply its resources to research, publishing and disseminating information." Headquarters: One SME Drive, P.O. Box 930, Dearborn, Mich. 48128. Chapters—Grand River Valley: Herbert Gurszinski, 279 Craighleith Dr., Waterloo, Ont. N2L 5B4. Hamilton: Robert J. Parry, 346 Mountain Brow Blvd., Hamilton, Ont. L8T 1A6. London-St. Thomas: Peter Billington, 342 St. James St., London, Ont. Mississauga: Robert A. Burnside, 62 Flavian Cres., Bramalea, Ont. L6T 3P4. Montreal: Carl Sandquist, 2935 Post Rd., Box 638, Hudson, Que. G0P 1H0. Niagara: George Kovacs, 25 Royal Oak Dr., St. Catharines, Ont. L2N 6K3. South Saskatchewan: George Greenhalgh, 139 Laubach Cres., Regina, Sask. S4S 6M2. Toronto: Nelson J. Lake, 41 Antrim Cres., Ste. 1205, Scarborough, Ont. M1P 4T1. Windsor: Karl H. Henseleit, 275 Eugenie St., Windsor, Ont. N8X 2X9.

Society of Plastics Engineers, Inc.

The object of the Society is to promote the scientific and engineering knowledge relating to plastics. Headquarters: 14 Fairfield Dr., Brookfield Center, Conn. 06805. R.D. Forger, Executive Director. Ontario Section: Richard Nowina, Cincinnati Milacron Canada Ltd., 122 North Queen St., Toronto, Ont. M8Z 2E4. Quebec Section: Claude Brisebois (Councilor), Du Pont Canada Inc., Montreal, Que. H3C 2V1.

The Society of the Plastics Industry of Canada

SPI is a national trade association which aims to promote the interests of the Canadian plastics industry. Member companies are engaged in the manufacture of plastics products or the supply of resins, other raw materials, machinery and equipment, and moulds. Headquarters: Suite 104, 1262 Don Mills Road, Don Mills, Ont. M3B 2W7. E. R. Evason, President. Branch: 555 Dorchester Blvd. West, Montreal, P.Q. H2Z 1B1.

Spring Manufacturers Institute

Aims: to maintain realistic spring standards in keeping with current technological requirements; to work with material and equipment suppliers to improve industry capabilities. Publishes "Springs" Magazine twice yearly. Headquarters: 1211 W. 22nd St., Oak Brook, Ill. 60521.

Steel Castings Institute of Canada

Carries out co-operative research to improve quality control of steel castings; preparation and dissemination of industry statistics; liaison with government offices; to promote ethical standards of manufacturing and merchandising, and understanding of the industry's products. Headquarters: Ste. 307, 151 Slater St., Ottawa, Ont. K1P 5H3.

Steel Castings Research and Trade Association

Headquarters: East Bank Rd., Sheffield S2 3PT, England.

Steel Founders' Society of America

Trade association for the steel casting industry. Headquarters: Cast Metals Federation Building, 20611 Center Ridge Road, Rocky River, Ohio 44116. Jack McNaughton, Exec. Vice-President.

Steel Plate Fabricators Association Inc.

Headquarters: 2901 Finley Road, Suite 103, Downers Grove, Ill. 60515.

Steel Service Center Institute

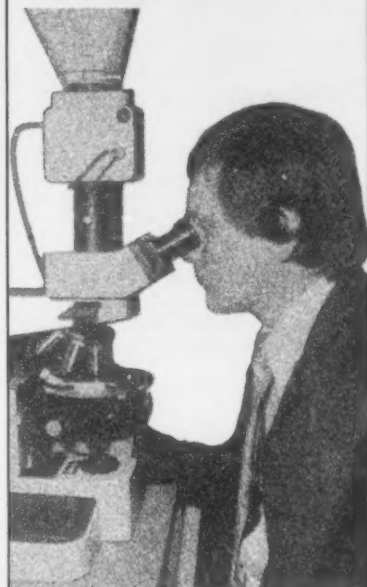
Headquarters: 16th Floor, Terminal Tower, Cleveland, O. 44113.

Technical Service Council/Le Conseil de Placement Professionnel

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Information sources

Calgary: G. Agnew, 816-7th Ave. S.W., Calgary, Alta. T2P 1A1.

Vancouver: A. G. Tinker, 475 West Georgia St., Suite 250, Vancouver, B.C. V6B 4M9.

Edmonton: R. Turpin, 10709 Jasper Ave., 2nd floor, Edmonton, Alta. T5J 3N3.

Winnipeg: Keith Lott, 175 Hargrave St., Winnipeg, Man. R3C 3R8.

Halifax: John Forgeron, 1888 Brunswick St., Suite 709, Halifax, N.S. B3J 3J8.

Tin Research Institute Inc.

Aids all persons and associations interested in research and information on the use and development of tin.

North America: 1353 Perry St., Columbus, Ohio 43201. Daniel J. Maykuth, Manager.

Head Office: International Tin Research Institute, Fraser Road, Perivale, Greenford, Middlesex, England UB6 7AQ.

Tool & Die Institute

Headquarters: 777 Busse Highway, Park Ridge, Ill. 60068. Thomas DePinto, exec. vice-president.

Truck Trailer Manufacturers Association

Headquarters: 2430 Pennsylvania Ave., N.W., Washington, D.C. 20037. Charles J. Calvin, President.

United Steelworkers of America

National Director for Canada: E. C. Docquier, 55 Eglinton Ave. E., 8th Floor, Toronto, Ont. M4P 1B5. District Directors: District #3, H. L. Stevens, 686

W. Broadway, 6th Floor, Vancouver, B.C. V5Z 1G1. District #5, J. Gerin-Lajoie, 1290 St. Denis St., 10th Floor, Montreal, Que. H2X 3J7. District #6, F. S. Cooke, 100 Lombard St., 4th Floor, Toronto, Ont. M5C 1L4.

University Industrial Research Institutes

Incorporated as non profit organizations to perform research sponsored by industry, to advise industry about the research that might be beneficial to them and to assist industry in applying for government financial assistance for research and development.

Canadian Institute of Metalworking, McMaster University, 1280 Main St. W., Hamilton, Ont. L8S 4K1. J. E. Crozier, Manager.

Atlantic Industrial Research Institute: P.O. Box 1000, Halifax, N.S. B3J 2X4. G. P. Wilson, Director.

University of Waterloo: Waterloo Research Institute, Waterloo, Ont. N2L 3G1. Dr. E. L. Holmes, Director.

Welded Steel Tube Institute

The Institute stimulates the development of new markets and applications, promotes improvements in manufacturing techniques, and disseminates technical information concerning the fabrication of tubing. Headquarters: 522 Westgate Tower, Cleveland, Ohio 44116.

The Welding Institute

A research association and professional body carrying out a continuous program of research into all aspects of welding technology and attending information services.

Headquarters: Abington Hall, Abington, Cambridge, CB1 6AL England.

Welding Institute of Canada

Created in May 1979 to amalgamate the Canadian Welding Development Institute and the Canadian Welding Society, the new Institute promotes the advancement of the science, practice and economics of welding and allied technologies in co-operation with universities, governments, industry and sister associations, through: research and development; education, including home-study or in-plant courses, lectures, seminars, trade shows and the sale of technical books. Membership is open to: corporations, which entitles them to free Individual Memberships and many professional services; associations; teaching and other institutions. In addition qualified persons may join the Individual Members Division and participate in the many self-improvement activities of the nearest Chapter operated by the Institute in most industrial areas across Canada.

National Office: 391 Burnhamthorpe Road E., Oakville, Ont. L6J 6C9. Dr. N. F. Eaton, Director General; J. S. Johnston, Director Corporate Members Division; W. G. F. Winship, Director Individual Members Division. Branch a/s: Institut de Recherche de l'Hydro-Quebec, 180 Montee Ste. Julie, Varennes, Que. JOL 2P0.

Wire Association International Inc.

Headquarters: 1570 Boston Post Rd., Guilford, Conn. 06437. C. H. Ellwanger, Executive Director.

Wire Reinforcement Institute

Trade association of producers of welded wire fabric.

Headquarters: 7900 Westpark Dr., McLean, Va. 22102. William V. Wagner, Jr., President. Chairman of Institute's Canadian Division: M.J. Prosser.

Zinc Institute, Inc.

Headquarters: 292 Madison Ave., New York, N.Y. 10017.

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